

DATA SHEET

Kaunis

Kaunis has a gold band integrated in the middle of the luminaire to enhance its personal and exclusive look. It creates a warm light suited for parks, house entrances and resort areas.

The height of the bollard enables all users to experience the beauty of the solar panels from the top. The detail and light from the bollard creates an embracing feeling when being outside.

FEATURES:

- Stand alone solar powered LED Bollard
- Light in areas where cabling is not available or feasible
- No cabling and excavation cost
- Safe navigation in remote areas
- Renewable outdoor lighting
- Solar cells generate power during the day
- Power is consumed during the night to light up the luminaries
- Integration of sensor
- CO2 neutral
- Possible to integrate a variety of sensor based technology
- Supports Control Management System
- Controllable via mobile app or web-platform
- Possible to integrate a variety of sensor based technology





LUMINARIES

Material	Top in cast aluminum, bollard in galvanized steel
Coating	Graphite Grey: SW302G (close to RAL 9007)
	Silver Grey: MW3000
	Corten Brown: Mars 2525, YX355F
Screen	Clear polycarbonate with UV-resistant acrylate on both sides
Mounting	Rooted or flanged base
Connection	Max 3 cables, 5x16 mm ²
Classification	IP66, class II
Impact resistance	IK10
Weight	7,5kg

LED AND DRIVER DATA

Operational life	Min 100.000 hours at a max 25° C, L80B10
Total consumption	9 or 12 W (350 or 500mA)
Color temperature	2700, 3000 or 4000 Kelvin
Color rendering	Min 90 Ra
Color accuracy	3 steps SDCM
Output ratio	57%
Luminous power	2700 Kelvin, 500 – 2200lm
	3000 Kelvin, 550 – 2300lm
	4000 Kelvin, 600 – 2350lm
Driver	LED driver, 0 to 500mA
Operational life	Min 50.000 hours

BATTERY

Based on a Nickel-Metal-Hydride environmental friendly battery
(No Cadmium, Mercury or Lead).

Operating temperature range	-30° C to 77° C
Life cycle	4000
Sizes	3.6V, 43Wh and 3.6V, 86Wh

CONTROLLER

Handled charge during daytime	Up to 10W
Used to light up the LED at nighttime	Up to 6W

BATTERY

The bollard battery solution is based on a Nickel-Metal-Hydride environmental friendly battery (No Cadmium, Mercury or Lead). It offers a wide operating temperature range -30° C to 77° C with a typical life cycle on 4000 cycles.

For the bollard it comes in two sizes, 3.6V-43Wh and 3.6V-86Wh. Pending on location and environment the solution will be designed accordingly.

CONTROLLER

The controller in the bollard is the intelligent heart of the solution. The controller maximizes the energy available from the solar panel and uses the energy to charge a battery.

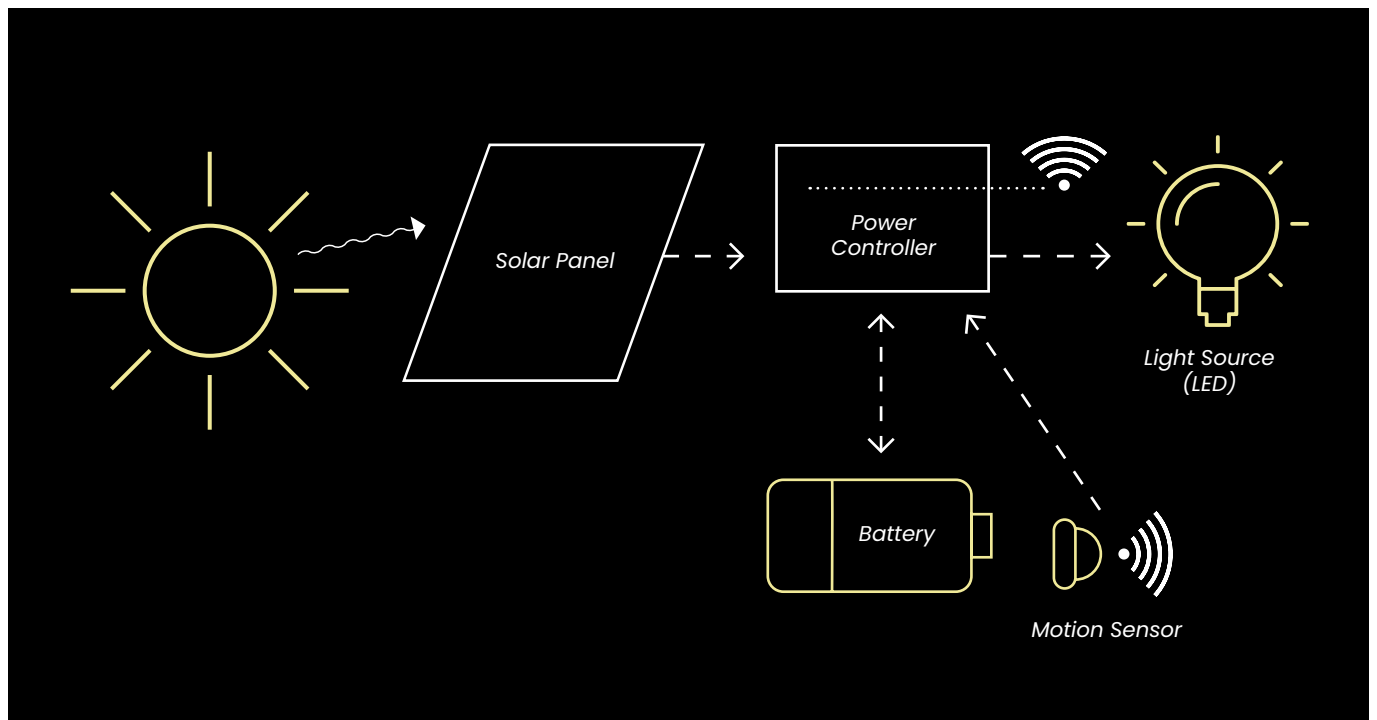
During the daytime the controller monitors the charged energy and handles charge up to 10W. When it gets dark the unit has counted the charged energy from the whole day.

This energy is then used to light after sunset controlling the LED with up to 12W. Depending on what time of year and location.

SOLAR PANEL 60WP MONOCRYSTALLINE

16Wp panel including 4 pcs. mono crystalline solar cells 4,16 Wp with anti-reaction coating that converts the maximum of light into energy.

The structured glass surface reduces reaction, resists wind and snow weather conditions.



Please recycle to local guidelines

Empowering energy solutions for street lighting and infrastructure

Sunio is a prominent importer of renewable energy solutions and has a rich history of pioneering sustainable practices and contributing to the clean energy transition in the United Arab Emirates. Founded in 2023 we embarked on a mission to introduce cutting-edge renewable technologies to the UAE market, promoting environmental consciousness and energy independence.

We recognized the growing need for sustainable energy alternatives in the UAE, considering the region's abundant natural resources and the global shift towards clean energy.

We are dedicated to sourcing and importing the latest renewable energy solutions from around the world. Working closely with renowned manufacturers and industry experts, we have curated a diverse portfolio of high-quality products, including solar street light solutions, solar panels, energy storage systems, and other sustainable technologies.

Through strategic partnerships and collaborations, we play a pivotal role in introducing and popularizing renewable energy solutions across the UAE. We actively engage with government entities, private enterprises, and individuals, raising awareness about the benefits of clean energy and facilitating its adoption on a large scale.

Driven by a vision of sustainability and a passion for environmental stewardship, we have actively contributed to the UAE's ambitious clean energy targets. By importing and providing access to advanced renewable technologies, we have helped the UAE reduce its carbon footprint, diversify its energy mix, and foster a more sustainable and resilient economy.

As a trusted importer of renewable energy solutions, we continue to empower individuals, businesses, and organizations to embrace clean energy alternatives, reduce their environmental impact, and contribute to a greener future for the UAE.